

In the Drawings:

Please add the following new drawing shown in red ink on the attached sheet.

In the Specification:

Please amend the specification at page 7 as follows:

[0014] (Amended) Further advantages and details of the invention are described below in conjunction with the figures, in which:

Figure 1 shows a block diagram of a control structure for controlling an electric drive;

Figure 2 shows a block diagram control loop model of the system illustrated in Figure 1;

a' Figure 3(A) shows the design of a conventional ~~the~~ rotational speed controller;

Figure 3(B) shows the design of the rotational speed control of the present invention;

Figure 4 shows the amplitude profile $A(f)$ and the phase profile $\phi(f)$ of a band-stop filter, plotted against frequency f ;

Figure 5 shows the amplitude profile $A(f)$ and the phase profile $\phi(f)$ of a PT2 element, plotted against frequency f ;

Figure 6 shows the amplitude profile $A(f)$ and the phase profile $\phi(f)$ of a PT2 element compared with the phase-saving filters PDT2 element and Cauer filter of second order, plotted against frequency f ; and

Figure 7 shows a comparison of the amplitude profile $A(f)$ and the phase profile $\phi(f)$ of a Cauer filter of eighth order compared to a Cauer filter of second order, plotted against frequency f .

a' [0015] The filters according to the present invention are shown in Figure 3(B) and permit ideal matching with regard to frequency range and amplitude reduction. Figure 6 shows, by way of example, two of the novel filters of the present invention, specifically a PDT2 element PDT2 (dotted) and a second order Cauer filter C2 (solid), compared with a conventional lowpass filter with PT2 element PT2 (dashed and dotted). In each case, the amplitude profile $A(f)$ and the phase profile $\phi(f)$ are plotted against frequency f . All the filters fulfill the requirement of ensuring an amplitude reduction of 25 dB at 800 Hz.
